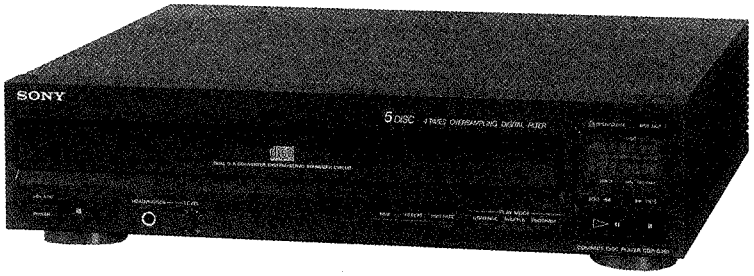
CDP-C35/C201/C205/C305

SERVICE MANUAL

US Model
CDP-C35/C201/C205/C305
Canadian Model
AEP Model
E Model
Australian Model
CDP-C305



Model Name Using Similar Mechanism	CDP-190/390
Optical Pick-up Block Type	BU-5BD3

SPECIFICATIONS

System	Compact disc digital audio system
Laser	Semiconductor laser (λ=780 nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz ($^{+1.0}_{-1.2}$ dB)
Signal to noise ratio	More than 93 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.05% (1 kHz)
Channel separation	More than 90 dB (1 kHz)
Wow and flutter	Below measurable limit
Outputs	LINE OUT (phono jacks) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms PHONES (stereo phone jack) (CDP-C305/C205 only) Output level 0 – 10 mW (variable) (at 32 ohms)

General

Power requirements	US, Canadian model 120 V AC, 60 Hz AEP model 200V AC, 50/60Hz E model 110—120, 220—240V AC adjustable, 50/60Hz Australian model 240 V AC, 50/60 Hz
Power consumption	11 W
Dimensions	Approx. 430×110×385 mm (w/h/d) (17×4$^3/_8$×15$^1/_4$ inches)
Weight	Approx. 4.9 kg (10 lbs 13 oz), net

Supplied accessories

Audio signal connecting cord
(phono plug × 2 ↔ phono plug × 2) (1)
Remote commander (1) (CDP-C305 only)
R6 (size AA) batteries (2) (CDP-C305 only)
Operating Manual (1)

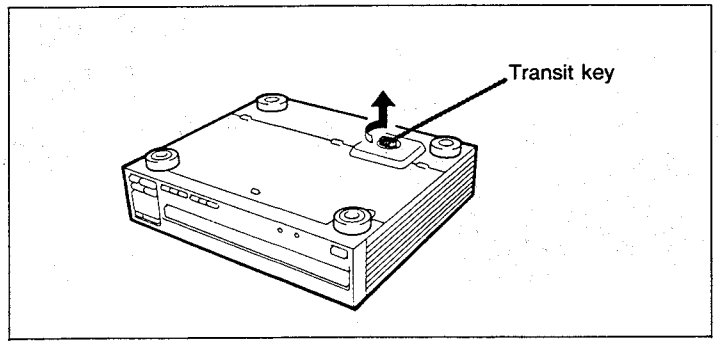
Design and specifications subject to change without notice.

MICROFILM

COMPACT DISC PLAYER
SONY®

Note on the Transit Key

The white transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.
When transporting the unit, replace the key in its original hole and lock it in place.



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SAFETY-RELATED COMPONENT WARNING!!

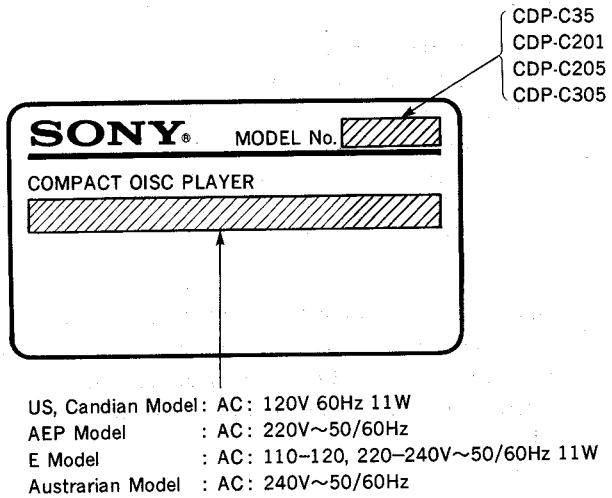
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

—Model Number Label—



NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

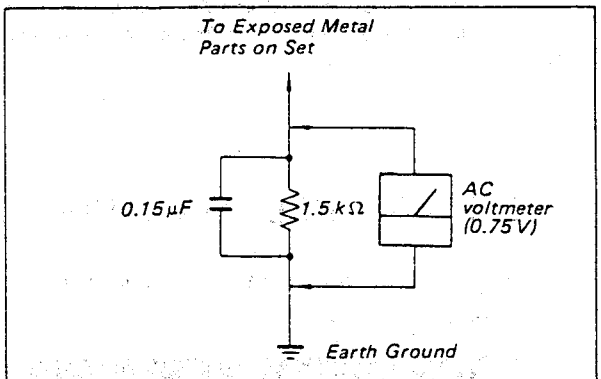


Fig. A. Using an AC voltmeter to check AC leakage.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties
   - Material: GaAlAs
   - Wavelength: 780 mm
   - Emission Duration: continuous
   - Laser Output Power: less than 44.6 μW*

     * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-didoe data
   - Materiale: GaAlAs
   - Bølgelængde: 780 nm
   - Udstråling: Kontinuerlig
   - Laseroutput: Max. 0,4 mW*

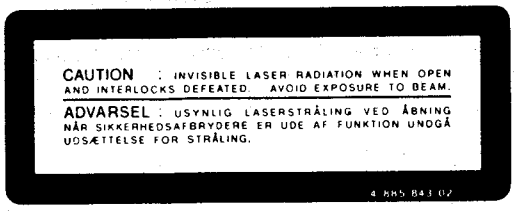
     * Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.
   - Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning

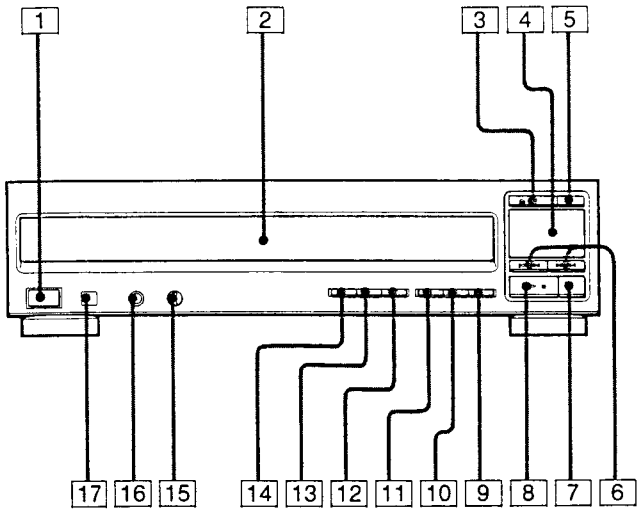

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING.

VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkymätöntä) silmille vaarallista lasersateilyä.

SECTION 1
GENERAL

1-1. LOCATION OF CONTROLS

Front Panel

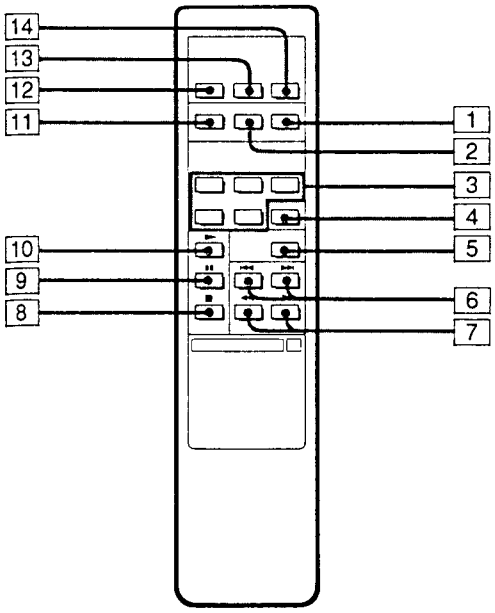


1 POWER switch
2 Disc tray
3 ⏏ OPEN/CLOSE button
4 Display window
5 DISC SKIP button
6 ⏮ ◀◀/▶▶ ⏭ (AMS*/RMS**: manual search) buttons
7 ■ (stop) button
8 ▶❚❚ (play/pause) button
9 PROGRAM button
10 SHUFFLE button
11 CONTINUE button
12 TIME FADE button
13 REPEAT button
14 TIME button
15 (Headphones) LEVEL control } EXCEPT FOR CDP-C201
16 HEADPHONES jack } EXCEPT FOR CDP-C201
17 Remote sensor } EXCEPT FOR CDP-C201

* AMS is the abbreviation of Automatic Music Sensor.
** RMS is the abbreviation of Random Music Sensor.

Remote Commander

(CDP-C35/C305 only)

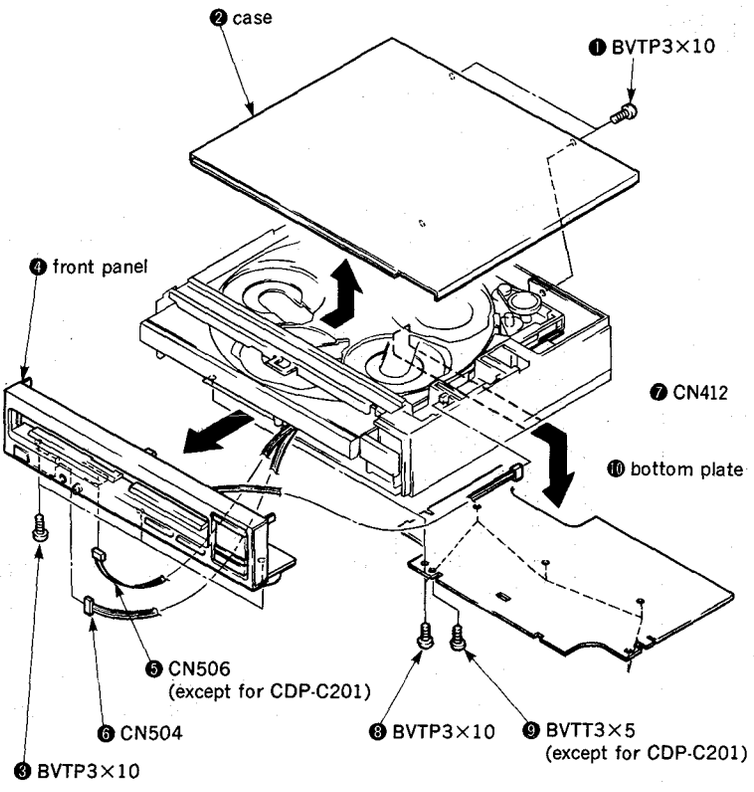


1 MUSIC SCAN button
2 REPEAT button
3 DISC 1 – 5 buttons
4 DISC SKIP button
5 FADER button
6 ⏮ ⏭ (AMS*) buttons
7 ◀◀ ▶▶ (manual search) buttons
8 ■ (stop) button
9 ❚❚ (pause) button
10 ▶ (play) button
11 TIME button
12 CONTINUE button
13 SHUFFLE button
14 PGM (program) button

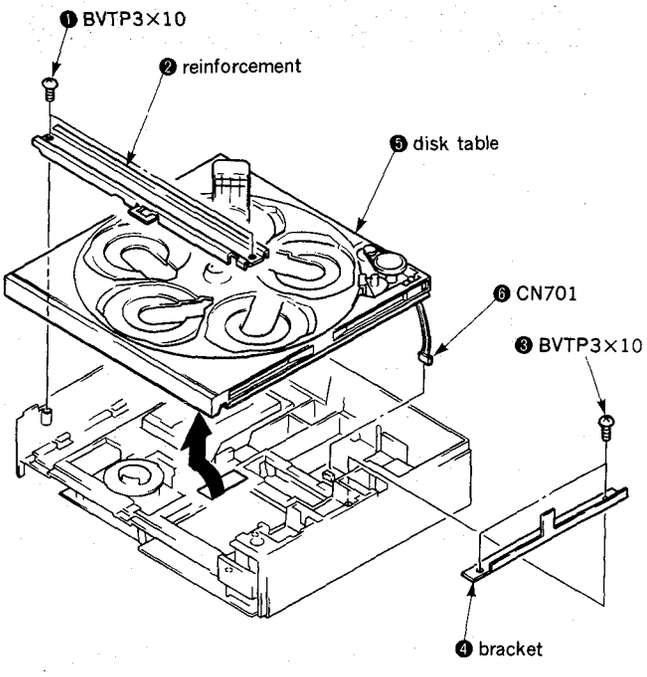
SECTION 2
DIASASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

2-1. FRONT PANEL, CASE AND BOTTOM PLATE

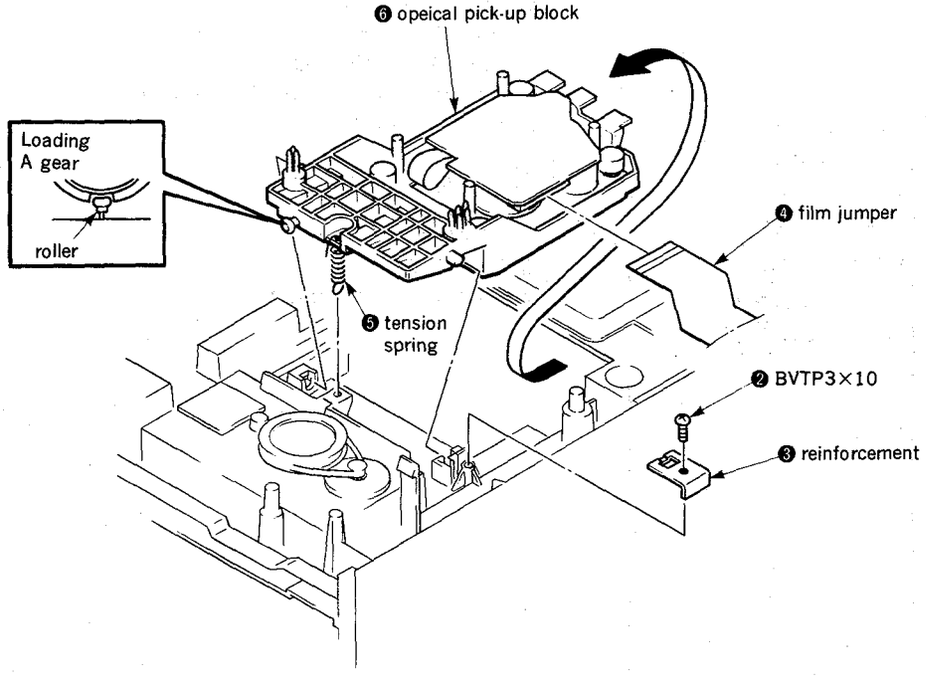


2-2. DISK TABLE



2-3. OPTICAL PICK-UP BLOCK

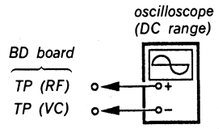
❶ Replace the set up side down.



SECTION 3
ELECTRICAL ADJUSTMENTS

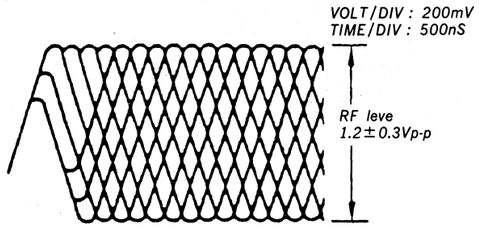
1. Perform adjustments in the order given.
2. Use YEDS-18 disc (3-702-101-1) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.

RF Level Check
Procedure :



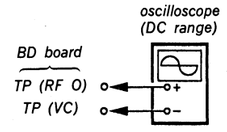
1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
2. Confirm that RF level and eye pattern is optimum.
   Oputimum eye pattern means that shape "◇" can be clearly distinguished at the center of the wave form.

RF signal Reference Waveform (eye pattern)



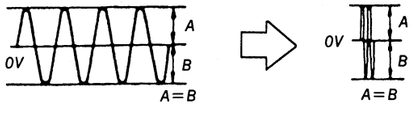
REFERENCE

E-F Balance Check
Procedure :

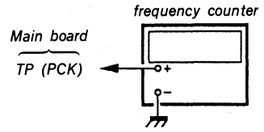


1. Connect test point TP (AF ADJ) and TP (TES) to ground with lead wire.
2. Connect oscilloscope to test point TP (TE O) and TP (VC) on BD board.
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and play back.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V.
6. After check, remove the lead wire connected in step 1.

Note : Take sweep time as long as possible to obtain best waveform.



RF PLL Free-run Frequency Check
Procedure :



1. Turn POWER switch on.
2. Put disc (YEDS-18) in and play back.
3. Confirm that reading on frequency counter is 4.3218MHz.

Focus/Tracking Gain Adjustment

A frequency responce analyzer is necessary in order to perform this adjustment exactly.

However, this gain cas a margin, so even if it is slightly off. there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is the point where both are satisfied.

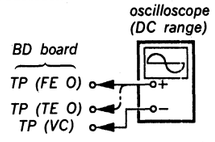
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

Symptoms \ Gain	Focus	Tracking
• The time until music starts becmes longer for STOP →▷ PLAY or automatic selection. (⏮, ⏭ buttons pressed.) (Normally takes about 1 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP →▷ PLAY or automatic selection. (⏮, ⏭ buttons pressed.)	—	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• More noise during 2-axis device operation.	high	high

The following is a simple adjustment method.

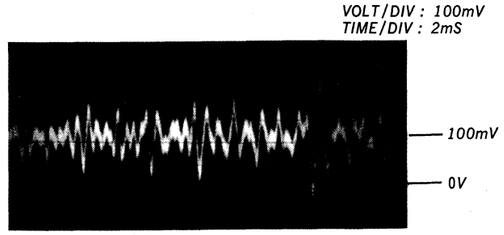
—Primary Adjustment—

Note : Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment.
If the positions after the primary adjustment are only a little different, returs the controls to the original position.

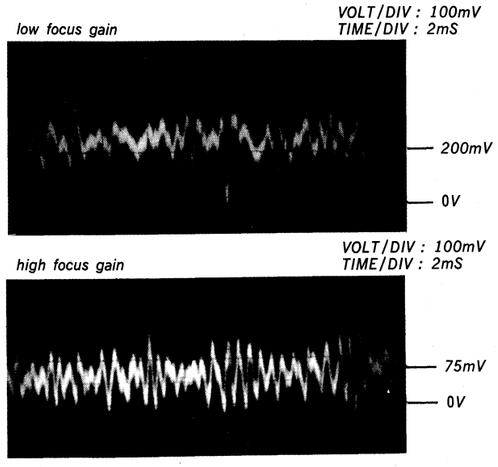


Procedure :

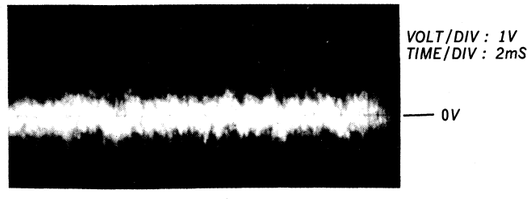
1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18) and press ▷ PLAY button.
3. Connect oscilloscope to TP (FEO) and TP (VC) on BD board.
4. Adjustment RV102 on BD board so that the waveform is as shown in the figure below. (focus gain adjustment)



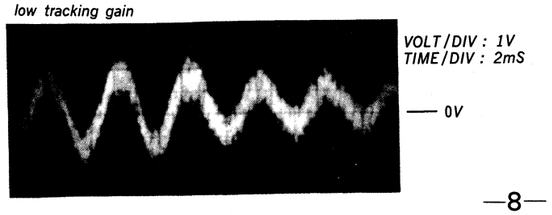
- Incorrent Examples (DC level changes more than on adjusted waveform)

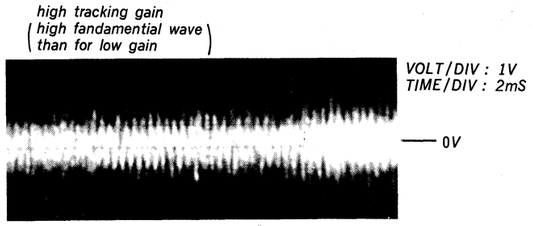


5. Connect oscilloscope to TP (TEO) and TP (VC) on BD board.
6. Adjust RV101 on BD board so that the waveform is as shown the flgure below. (tracking gain adjustment)

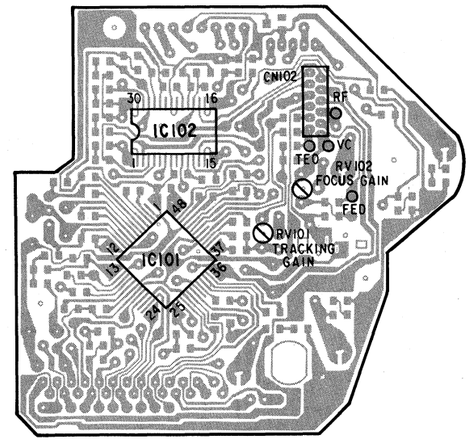


- Incorrect Examples (fundamentia wave appears)

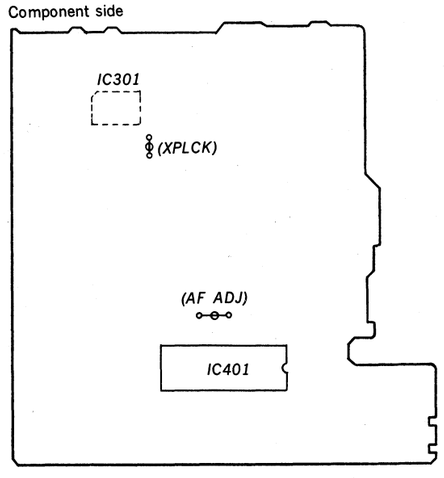




Adjustment Location :
[BD board]



[Main board]



4-1. CIRCUI

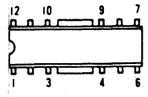
LOADING MOT

POWER SW BO

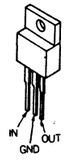
HEADPHONE

4-2. SEMICO

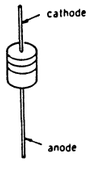
CXA1291P



MC7808CT



RD3.9ES-B2
RD4.7ES-B2
1SS202-1

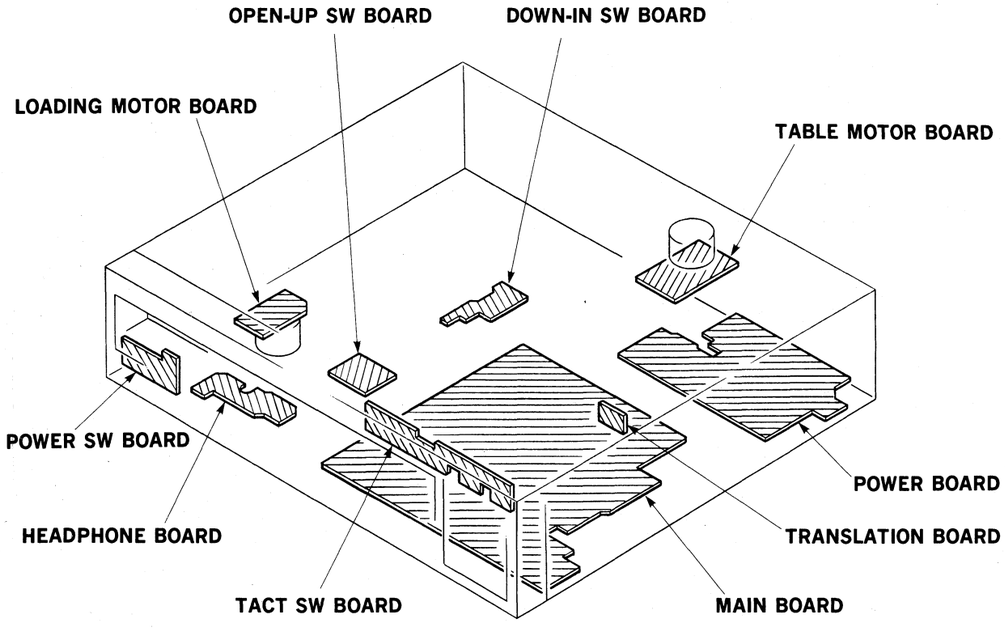


VOLT/DIV : 1V
TIME/DIV : 2mS

0V

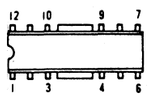
SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

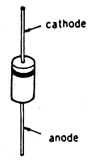


4-2. SEMICONDUCTOR LEAD LAYOUTS

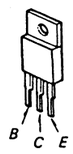
CXA1291P



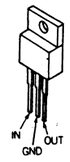
10E2N



2SB1094-L

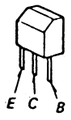


MC7808CT

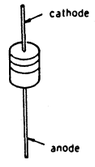


DTA144ES
DTC143TS
DTC144ES

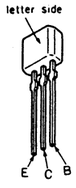
2SD774-34



RD3.9ES-B2
RD4.7ES-B2
1SS202-1



2SA1175-HFE



CDP-C35/C201/C205/C305

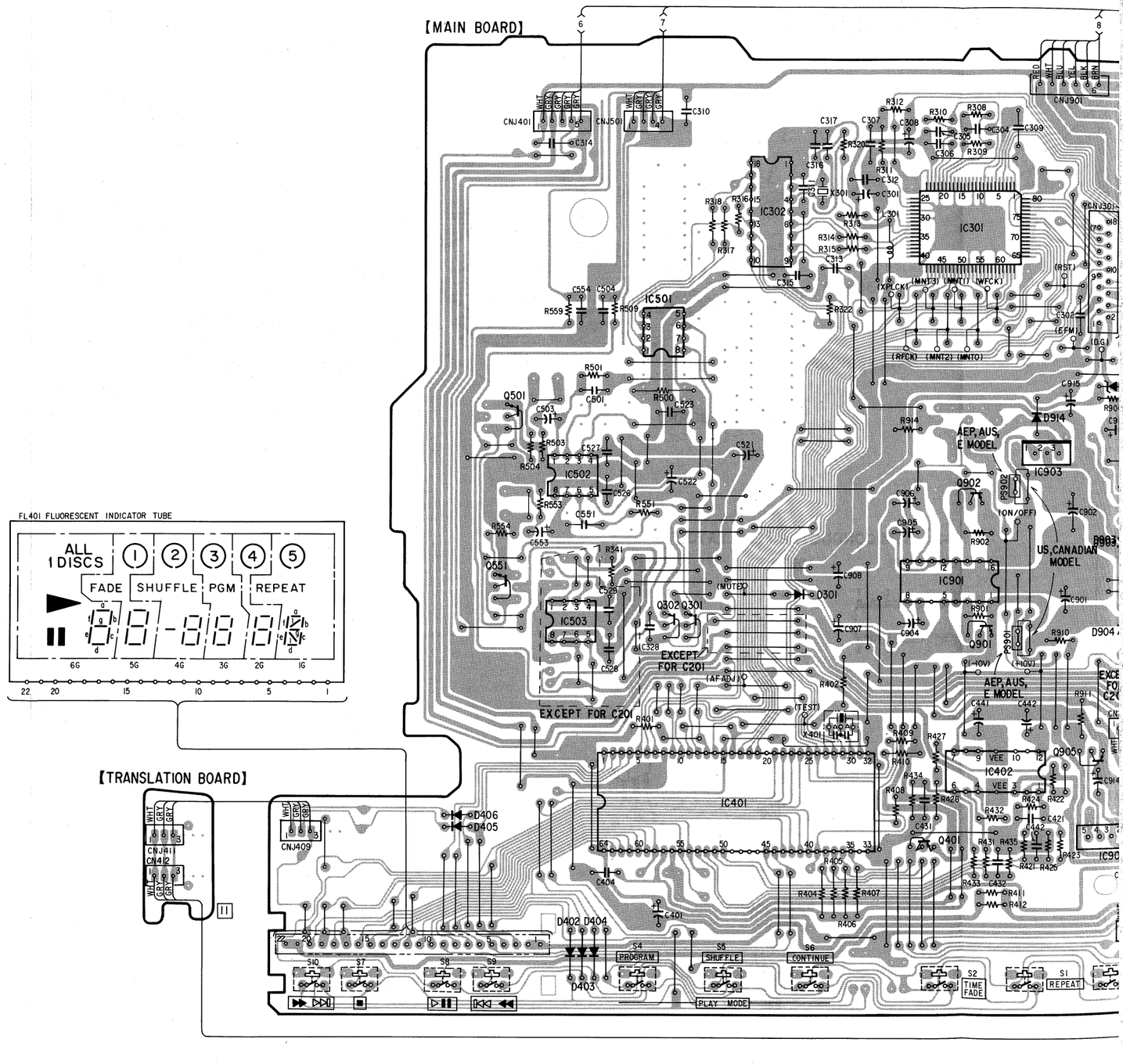
• **Semiconductor Location**

Ref. No.	Location
D301	G-7
D402	J-6
D403	J-6
D404	J-6
D405	I-5
D406	H-5
D901	F-10
D902	G-10
D903	F-10
D904	G-10
D909	F-10
D910	F-10
D911	E-10
D912	G-11
D913	I-11
D914	E-9
IC101	G-17
IC102	F-17
IC301	C-9
IC302	C-7
IC401	H-7
IC402	H-9
IC403	I-22
IC501	E-6
IC502	F-6
IC503	G-6
IC701	E-15
IC901	F-9
IC902	I-10
IC903	E-10
Q101	H-17
Q301	G-7
Q302	G-6
Q401	I-9
Q501	E-5
Q551	F-5
Q901	G-9
Q902	F-9
Q905	H-10

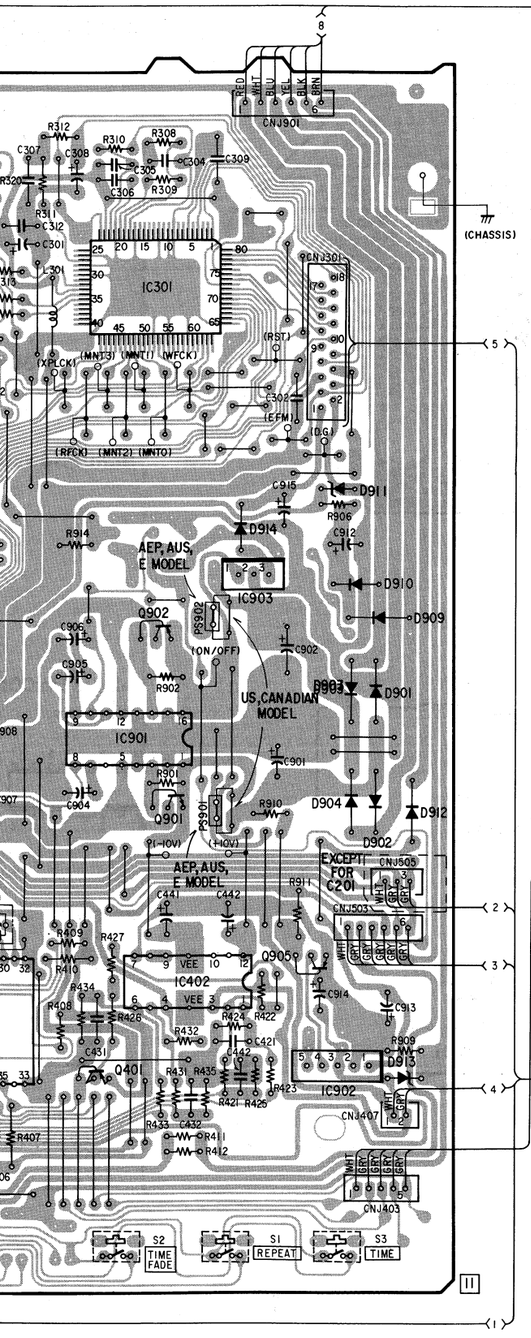
Note:

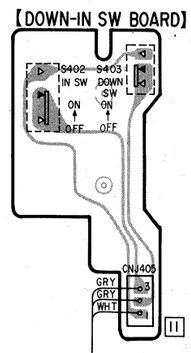
- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.
- AUS: Austrarian Model

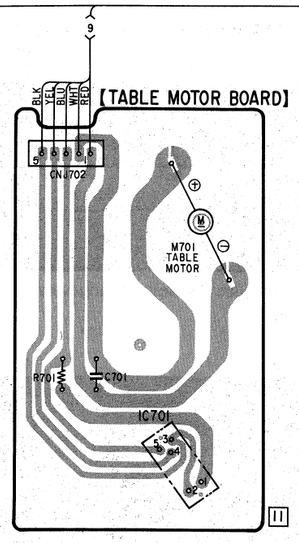
4-3. PRINTED WIRING BOARDS

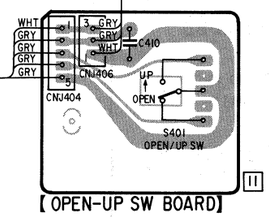


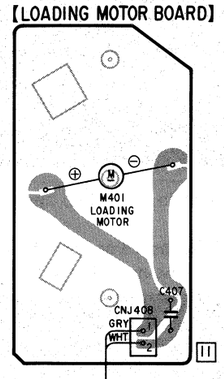
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

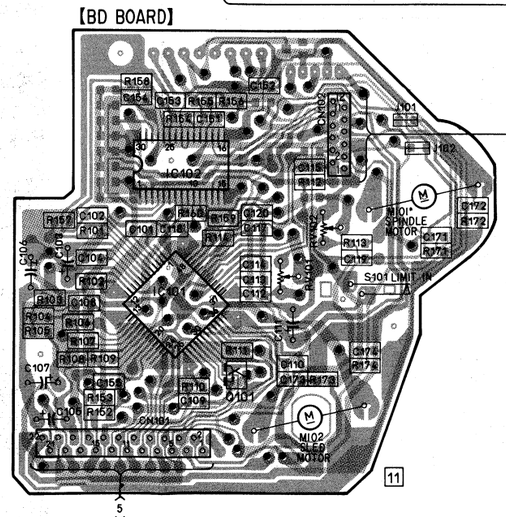


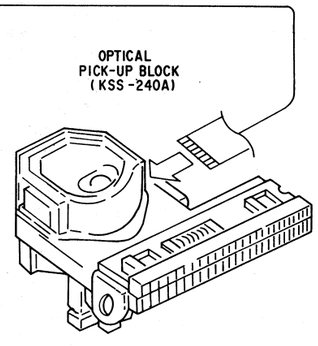


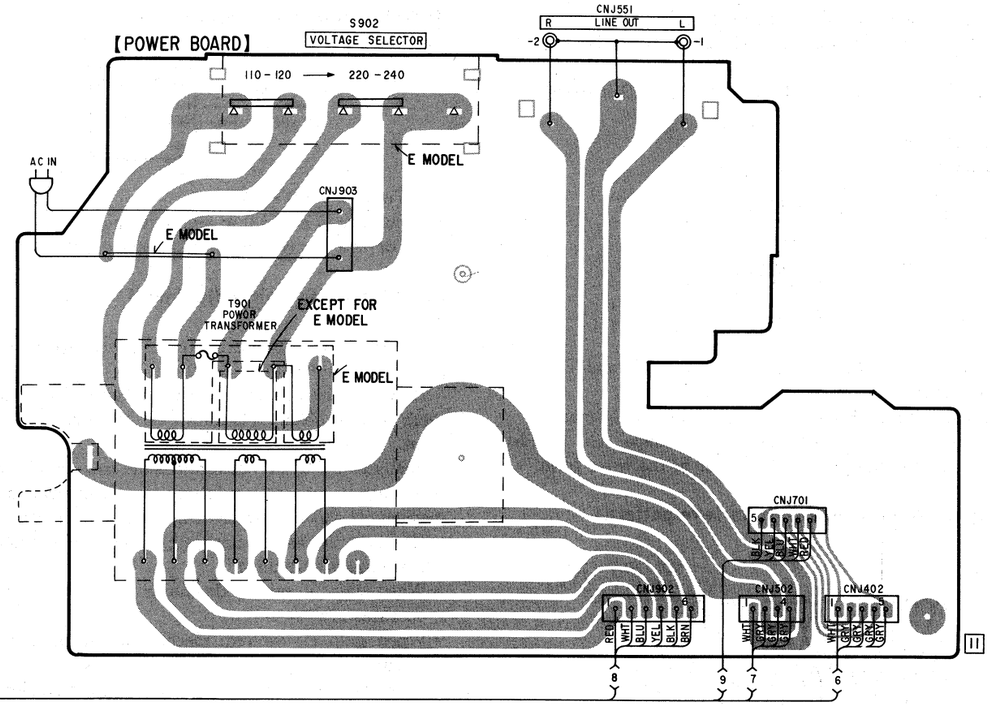


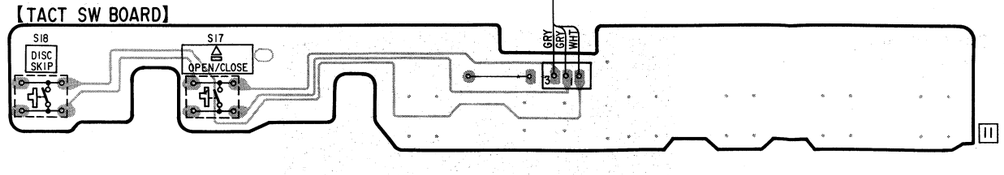


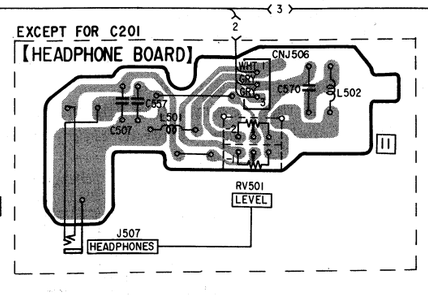


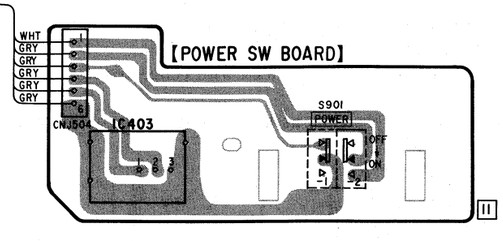












4-4. SCHEMATIC DIAGRAM

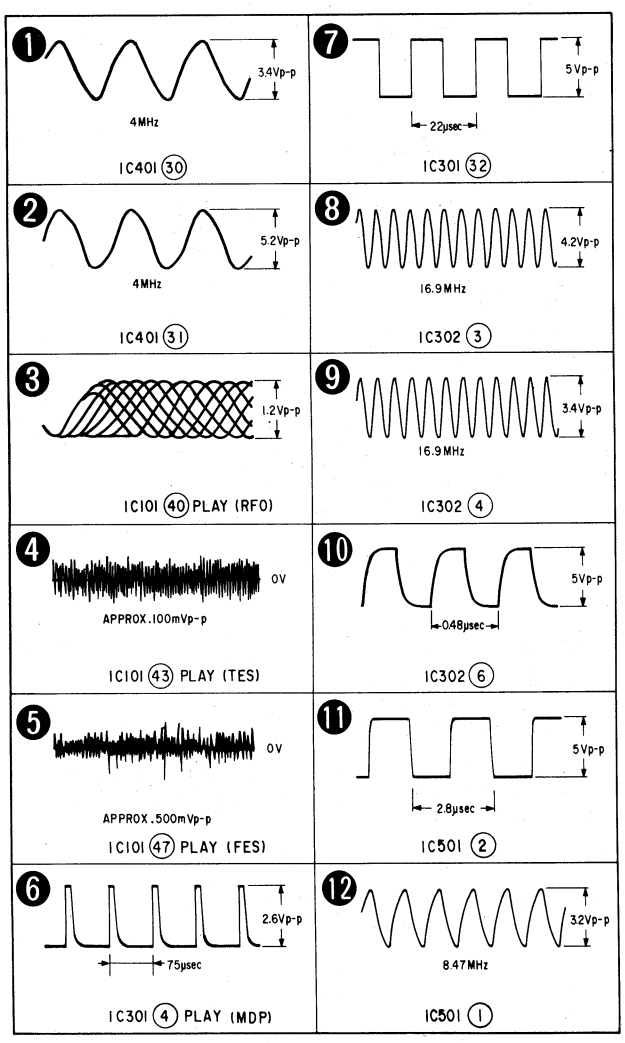
- Refer to page 19 for IC Block Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▬▬ : B+ Line
- ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- AUS : Austrarian Model


1 3.4Vp-p 4MHz IC401 (30)
2 5.2Vp-p 4MHz IC401 (31)
3 1.2Vp-p IC101 (40) PLAY (RFO)
4 0V APPROX.100mVp-p IC101 (43) PLAY (TES)
5 0V APPROX.500mVp-p IC101 (47) PLAY (FES)
6 2.6Vp-p 75μsec IC301 (4) PLAY (MDP)
7 5Vp-p 22μsec IC301 (32)
8 4.2Vp-p 16.9MHz IC302 (3)
9 3.4Vp-p 16.9MHz IC302 (4)
10 5Vp-p 0.48μsec IC302 (6)
11 5Vp-p 2.8μsec IC501 (2)
12 3.2Vp-p 8.47MHz IC501 (1)

【BD BOARD】

【TRANSLATION BOARD】

IC101
CXA1372Q
FOCUS/TRACKING/
SLED SERVO,
EFM COMPARATOR

IC102
FOCUS/TRACKING
COIL DRIVE,
SLED/SPINDLE
MOTOR DRIVE

IC102
LA1632M

IC301
CX02500Q
DIGITAL SIGNAL PROCESSOR
/CLV SERVO

IC302
CX02551P
DIGITAL FILTER

IC501
TDA1543A
D/A CONVERTER

IC903
+8V REG

OPTICAL PICK-UP

OPEN/UP SW BOARD

Q101
2SC3399
SWITCHING

Q901,902
REG

L301
27mH

S101
LIMIT SW

S401

X401
4M

CN101
22P

CN102
12P

CNJ301
18P

CNJ404
5P

CN409
DR 3P WHT

CNJ411
3P

CN412
6P

FOCUS COIL

TRACKING COIL

SPINDLE MOTOR

M101

M102
SLED MOTOR

FOCUS GAIN

TRACKING GAIN

TEO

FEO

FES

TES

RFG VC FEI TEI RFO

OPTICAL PICK-UP BLOCK(KSS-240A)

M52103FP

IC

DETECTOR,RF AMP

FOCUS COIL

TRACKING COIL

CN102 12P

E MODEL

T901 POWER TRANSFORMER

CNJ902 6P EH

CN903

AC IN

S902 VOLTAGE SELECTOR

220 – 240 / 110 – 120

※NOT REPLACEABLE BUILT IN TRANSFORMER

【TABLE MOTOR BOARD】

IC701 SENSOR

IC701 GP1A521

M701 TABLE MOTOR

R701 820

C701 2200p

CNJ702 5AN 5P WHT

【POWER BOARD】

CNJ701 5P PH WHT

CNJ402 5P DR WHT

EXCEPT FOR E MODEL

CNJ902 6P EH

CNJ903

AC IN

CNJ502 DR 4P WHT

CNJ551 LINE OUT

【POWER SW BOARD】

S901 POWER OFF → ON

CNJ504 6P DR WHT

IC403 REMOCON DETECTOR

IC403 GP1U52XB

IC901 +5V/–5V REG

Q905 SWITCH

IC902 M5293L

IC902 –32V REG

US,CANADIAN MODEL

Q901,902 REG

IC901 M5290P-16

PS901 ICP-N25

PS902 ICP-N25

AEP,AUS, E MODEL

IC903 +8V REG

IC903 MC7808CT

D914 11ES2

Q301,302 MUTING SWITCH

Q301 BA1L4M-TP

Q302 BN1L4M-TP

IC502 AF AMP

Q501 MUTING

IC503 HEADPHONE AMP

IC503 M5218A

EXCEPT FOR C201

【HEADPHONE BOARD】

CNJ506 3P BR WHT

J507 HEADPHONES

RV501 1k/1k LEVEL

L501 27mH

L502 27mH

C507 560p

C557 560p

C570 0.1

IC501 TDA1543A

IC501 D/A CONVERTER

IC502 RC4558P

Q501 MUTING

CNJ501 4P BA

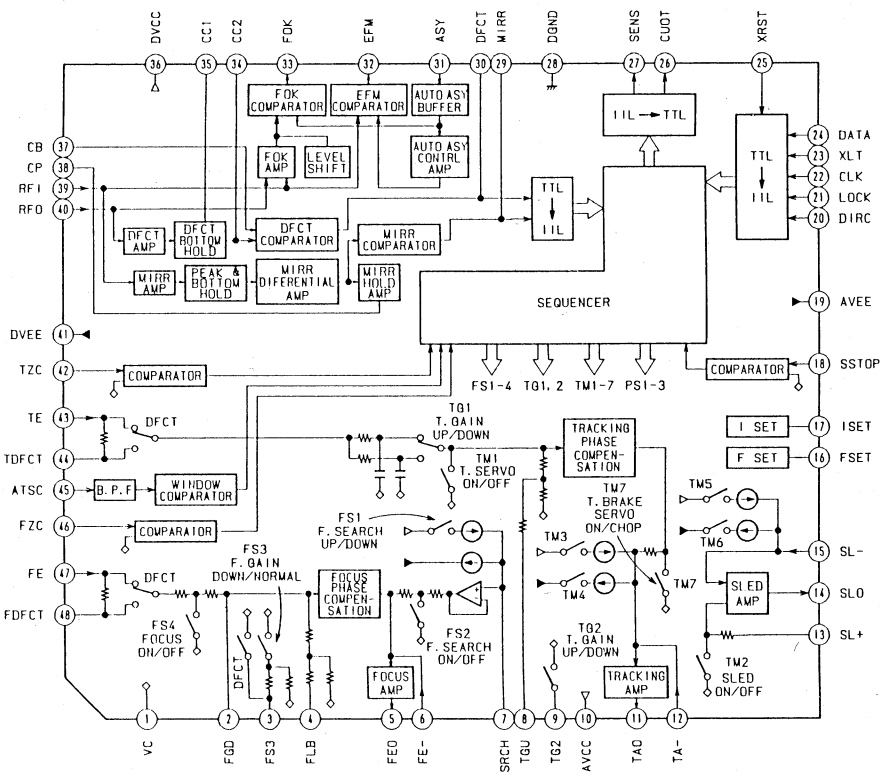
CNJ505 3P BA

CNJ503 6P BA

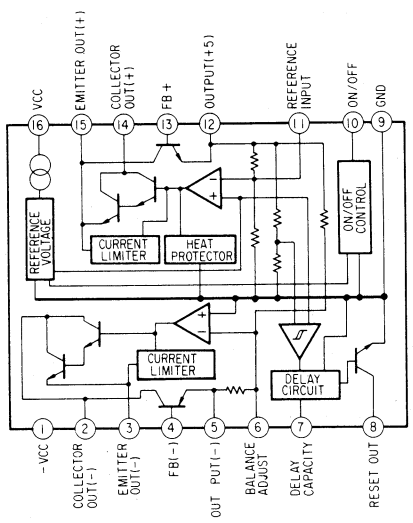
CNJ901 6P SCN

• IC Block Diagrams

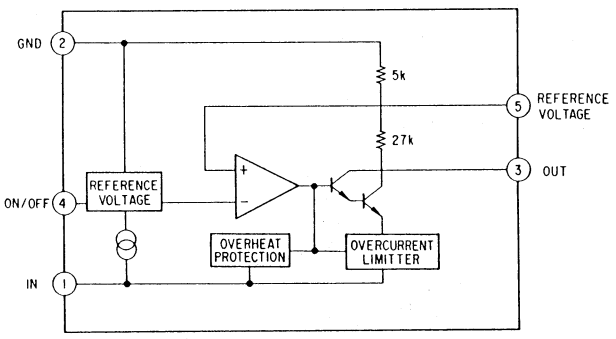
IC101 CXA1372Q



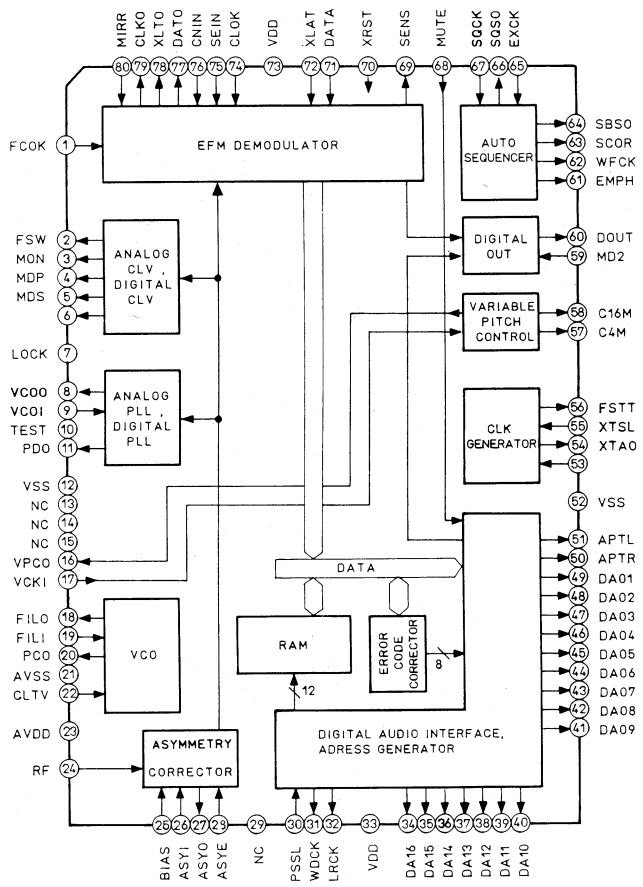
IC901 M5290P-16



IC902 M5293L

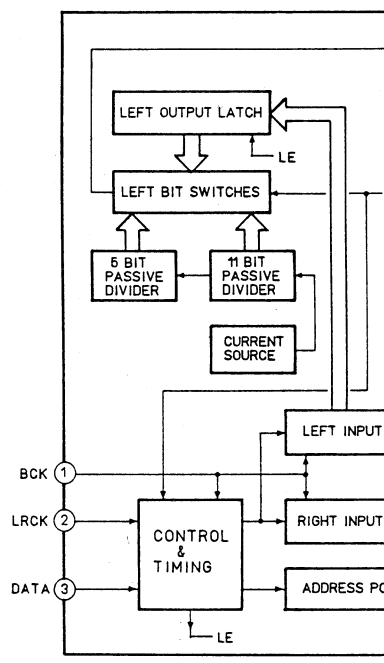


IC301 CXD2500Q

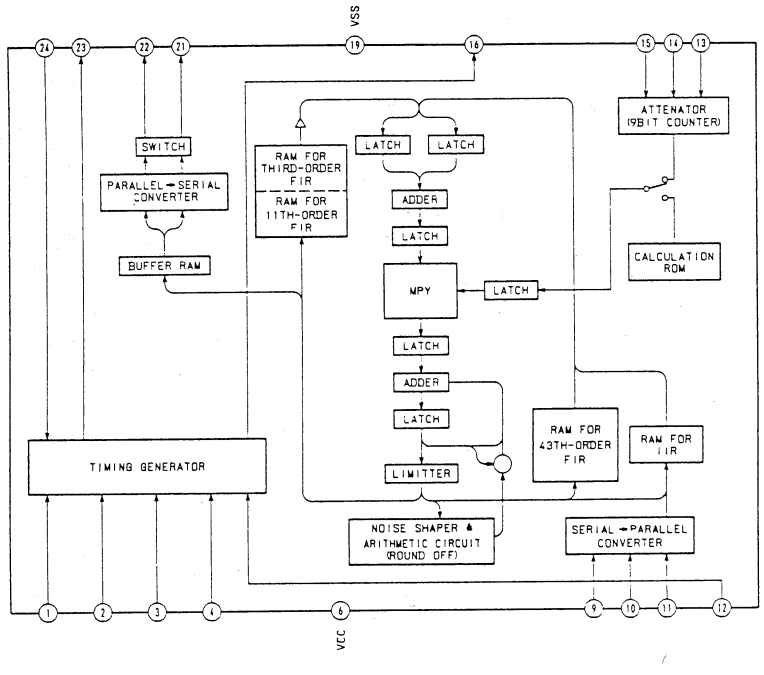


IC302 CXD2551P

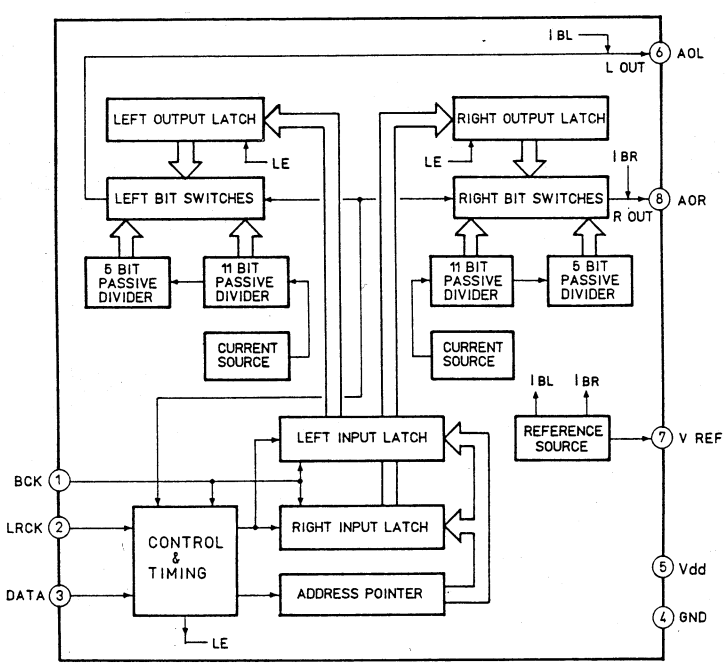
IC501 TDA1543A



IC302 CXD2551P



IC501 TDA1543A

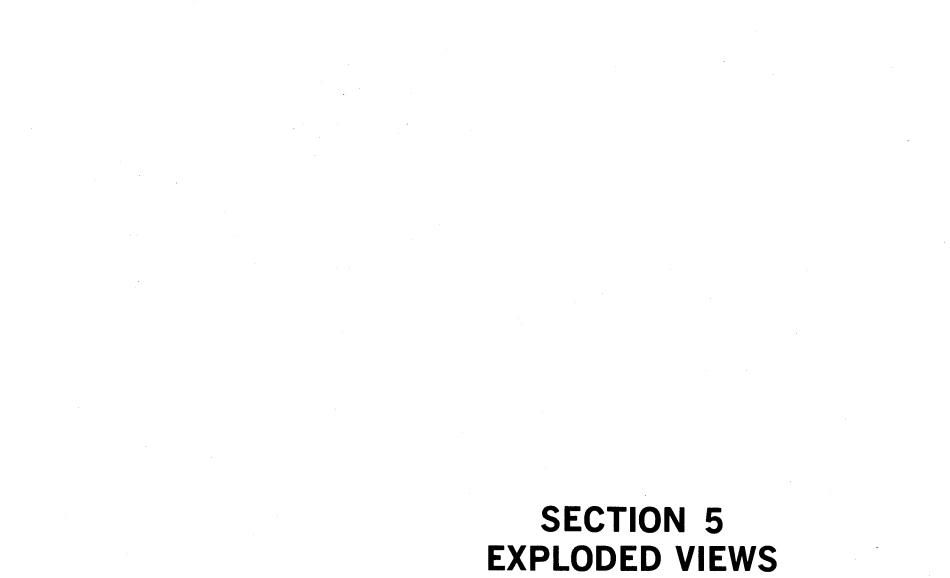


SECTION 5
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

5-1. CABINET SECTION



No.	Part No.	Description	Remarks
1	X-4924-452-1	(C305:US,Canadian)...PANEL ASSY, FRONT	
	X-4924-453-1	(AEP/E/AUS).....PANEL ASSY, FRONT	
	X-4924-454-1	(C205).....PANEL ASSY, FRONT	
	X-4924-455-1	(C201).....PANEL ASSY, FRONT	
	X-4924-456-1	(C35).....PANEL ASSY, FRONT	
2	4-922-921-01	BUTTON (POWER)	
3	4-922-531-11	(EXCEPT C201)...KNOB (A TYPE), LOV	
4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
5	4-934-367-01	(EXCEPT C35)...WINDOW (FL)	
	4-934-368-01	(C35).....WINDOW (FL)	
6	4-926-398-01	(AEP/E/AUS)...PLATE, ORNAMENTAL	
7	4-926-391-01	FOOT (FELT)	
8	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
9	7-685-870-01	SCREW +BVTT 3X5 (S)	
10	9-911-842-XX	CUSHION (S)	
11	4-930-503-21	CASE	
12	4-909-982-31	SCREW, TAPPING	
13	*4-934-346-01	(C305:US) ...PLATE (BACK PANEL), INDICATION	
	*4-934-347-01	(Canadian) ....PLATE (BACK PANEL), INDICATION	
	*4-934-348-01	(AEP)....PLATE (BACK PANEL), INDICATION	
	*4-934-349-01	(AUS)....PLATE (BACK PANEL), INDICATION	
	*4-934-350-01	(E).....PLATE (BACK PANEL), INDICATION	
	*4-934-351-01	(C205)...PLATE (BACK PANEL), INDICATION	
	*4-934-352-01	(C201)...PLATE (BACK PANEL), INDICATION	
	*4-934-353-01	(C35)....PLATE (BACK PANEL), INDICATION	
14	*3-703-244-00	(EXCEPT E)...BUSHING (2104), CORD	
	*3-703-571-11	(E).....BUSHING (S)(4516), CORD	

No.	Part No.	Descrip
15	4-870-539-00	PLATE,
16	*4-930-512-01	PLATE,
17	*4-926-396-01	HOLDER
18	*3-309-144-21	HEAT SI
19	7-682-547-04	SCREW +
901	*1-634-804-11	PC BOAR
902	*1-634-802-11	(EXCEPT
903	*1-634-803-11	PC BOAR
904	⚠.1-575-104-11	(E)....
	⚠.1-575-105-11	(US,Can
	⚠.1-575-453-11	(AEP)..
	⚠.1-575-677-11	(AUS)..
905	*1-634-806-11	PC BOAR
906	*1-634-805-11	PC BOAR
907	*A-4617-409-A	(C201).
	*A-4617-411-A	(C35,C2
	*A-4617-415-A	(AEP,E
908	⚠.1-569-007-11	(E3)...
CNJ551	1-566-921-11	JACK,
FL401	1-519-582-11	INDICAT
S902	⚠.1-571-722-11	(E)...S
T901	⚠.1-449-954-11	(US,Can
T901	⚠.1-449-955-11	(AEP/AU
T901	⚠.1-449-956-11	(E)...

EWS

ts with part may be dif- cified in the

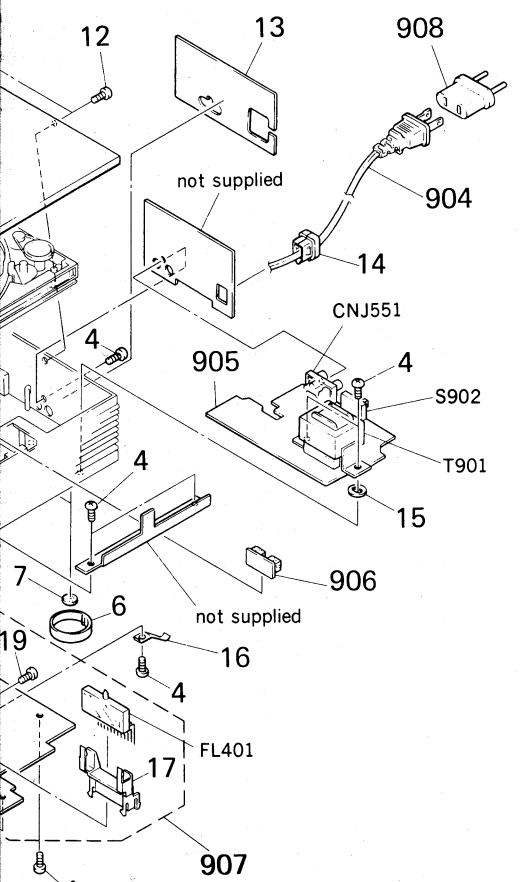
arance Parts

CE (WHITE) ↑ Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

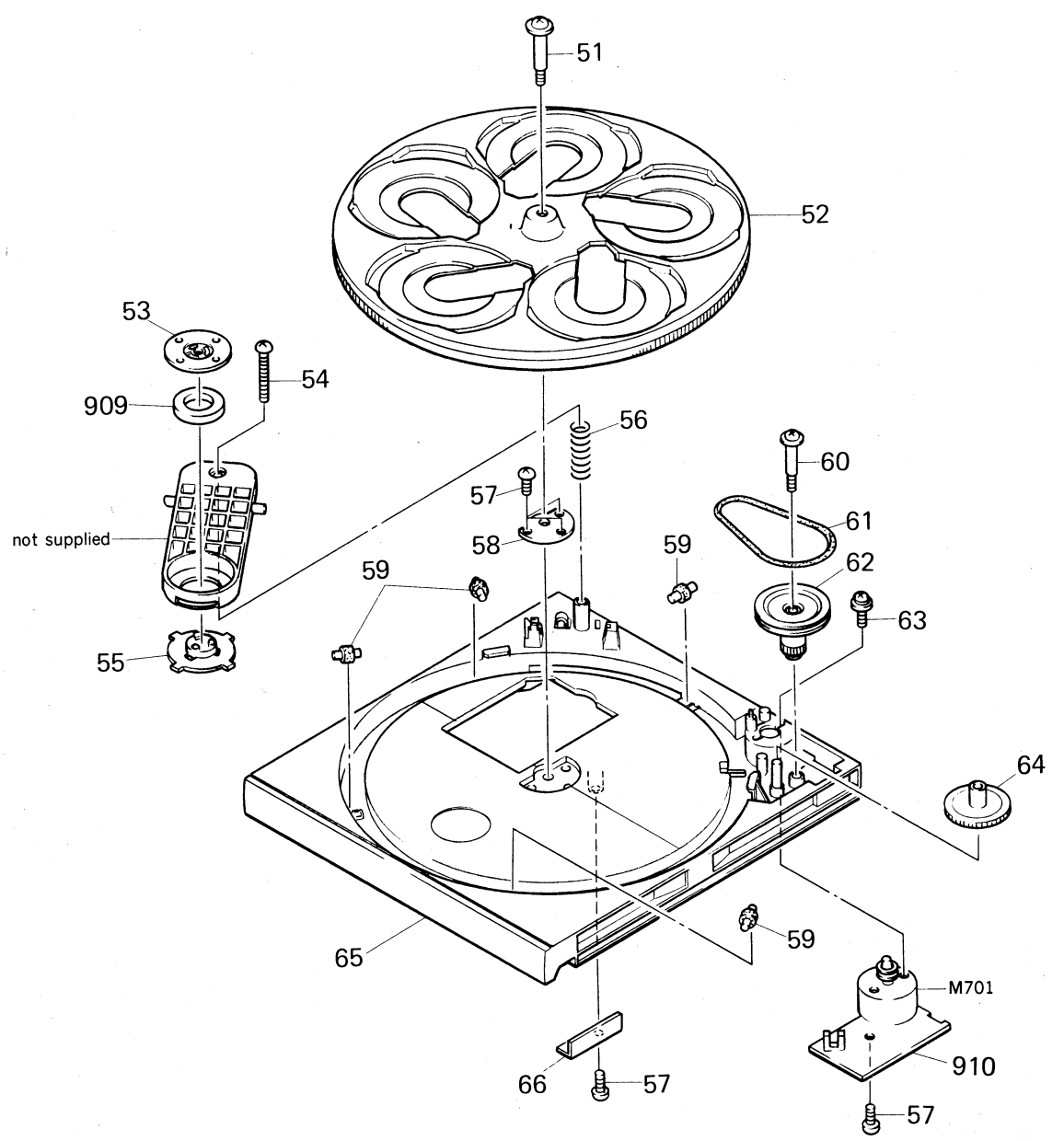
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

• AUS: Austrarian Model



Part No.	Description	Remarks
4-870-539-00	PLATE, GROUND	
*4-930-512-01	PLATE, GROUND	
*4-926-396-01	HOLDER (FL)	
*3-309-144-21	HEAT SINK	
7-682-547-04	SCREW +BVTT 3X6 (S)	
*1-634-804-11	PC BOARD, TACT SW	
*1-634-802-11	(EXCEPT C201)...PC BOARD, HEADPHONE	
*1-634-803-11	PC BOARD, POWER SW	
1-575-104-11	(E).....CORD, POWER	
1-575-105-11	(US,Canadian)...CORD, POWER	
1-575-453-11	(AEP).....CORD, POWER	
1-575-677-11	(AUS).....CORD, POWER	
*1-634-806-11	PC BOARD, POWER	
*1-634-805-11	PC BOARD, TRANSLATION	
*A-4617-409-A	(C201).....MOUNTED PCB, MAIN	
*A-4617-411-A	(C35,C205,C305:US/Canadian) ...MOUNTED PCB, MAIN	
*A-4617-415-A	(AEP,E,AUS).....MOUNTED PCB, MAIN	
1-569-007-11	(E3)...ADAPTOR, CONVERSTION 2P	
1-566-921-11	JACK, PIN 2P (LINE OUT)	
1-519-582-11	INDICATOR TUBE, FLUORESCENT	
1-571-722-11	(E)...SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR)	
1-449-954-11	(US,Canadian)...TRANSFORMER, POWER	
1-449-955-11	(AEP/AUS).....TRANSFORMER, POWER	
1-449-956-11	(E).....TRANSFORMER, POWER	

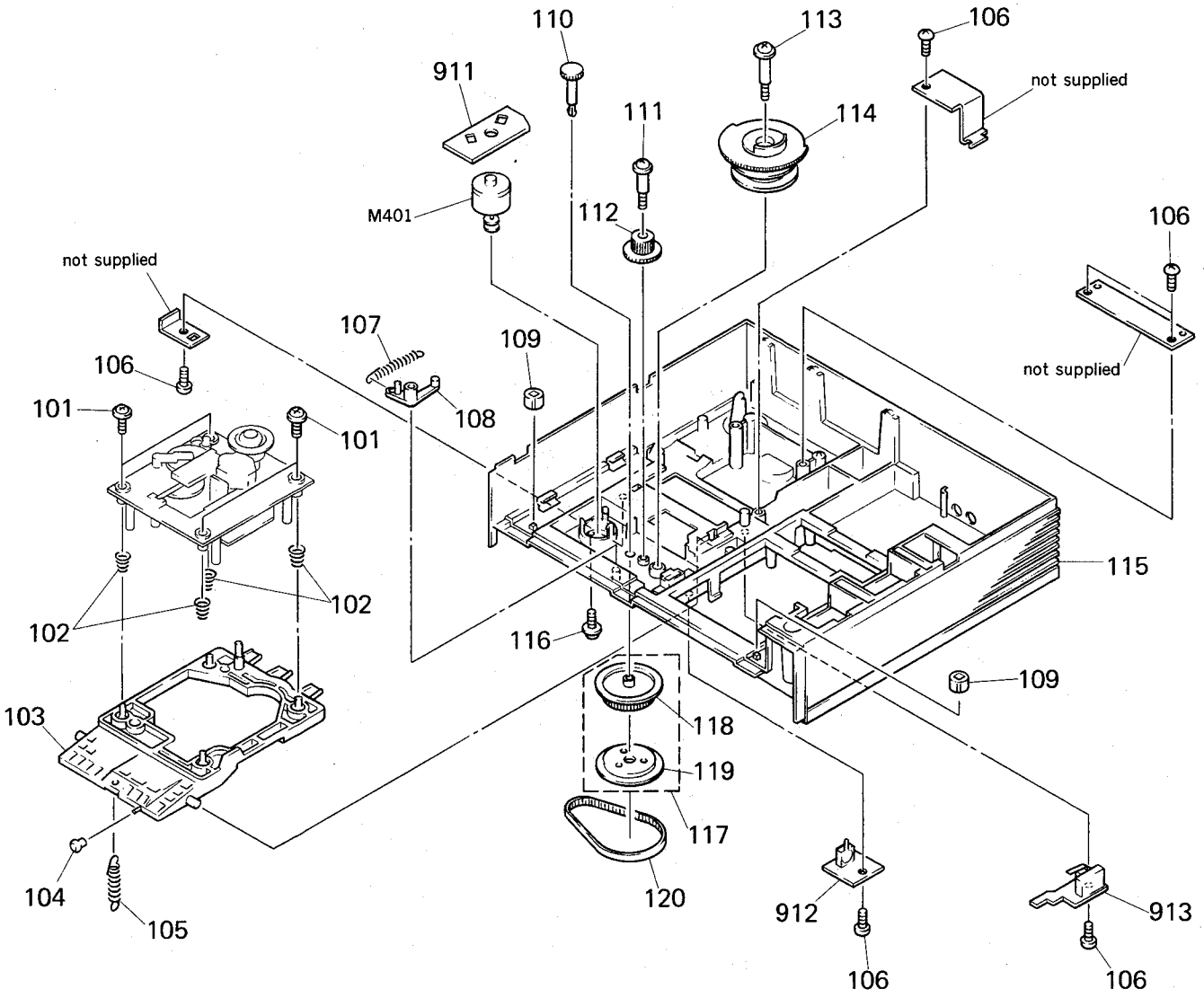
5-2. DISK TABLE SECTION



No.	Part No.	Description	Remarks
51	4-923-597-01	SCREW, STEP	
52	*4-926-383-01	TABLE (B), DISK	
53	4-921-029-01	YOKE, CHUCKING	
54	7-682-554-04	SCREW +B 3X25	
55	4-921-022-01	PULLEY, CHUCKING	
56	4-926-395-01	SPRING, COMPRESSION	
57	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
58	*4-926-387-01	BRACKET (CENTER SHAFT)	
59	*X-4924-409-1	SHAFT (ROLLER B) ASSY	
60	4-926-384-01	SCREW, STEP	
61	4-926-399-01	BELT	

No.	Part No.	Description	Remarks
62	4-926-385-01	GEAR (C)	
63	7-621-759-35	+PSW, 2.6X5	
64	4-926-386-01	GEAR (B)	
65	4-934-369-01	(EXCEPT C35,C205)...TABLE (A), DISK	
	4-934-369-11	(C205).....TABLE (A), DISK	
	4-934-369-21	(C35).....TABLE (A), DISK	
66	*4-926-388-01	BRACKET (ADJUSTMENT)	
909	1-452-340-21	MAGNET	
910	*1-634-807-11	PC BOARD, TABLE MOTOR	
M701	A-4604-232-A	MOTOR ASSY, ROTARY	

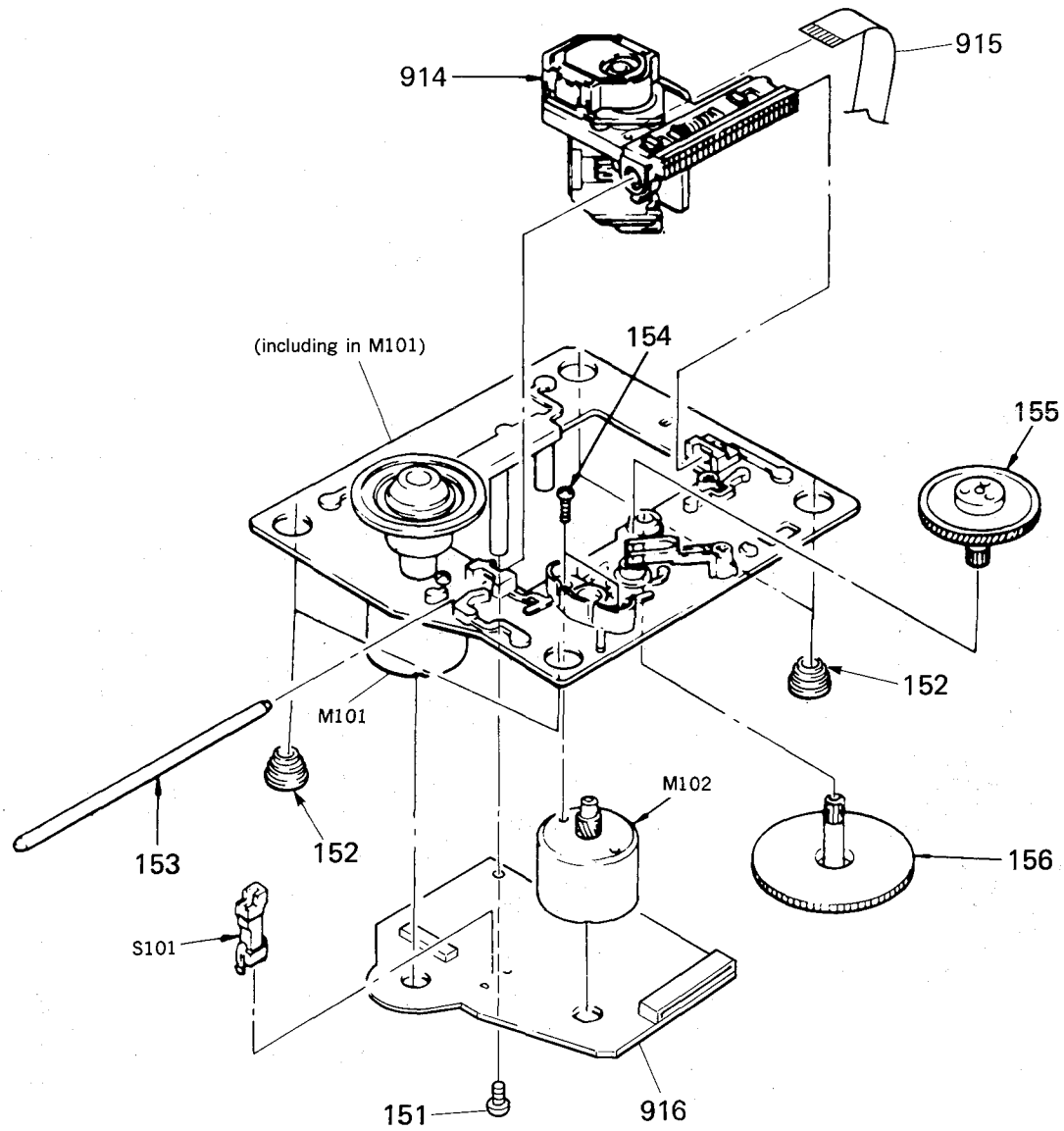
5-3. FRAME SECTION



No.	Part No.	Description	Remarks
101	4-933-134-01	SCREW (+PTPWH M2.6X6)	
102	4-917-541-01	SPRING (B)	
103	*4-934-373-01	BRACKET (BU)	
104	4-927-631-01	ROLLER (L)	
105	4-937-911-01	SPRING, TENSION	
106	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
107	4-924-412-01	SPRING (B), TENSION	
108	4-917-519-01	LEVER, SET	
109	*4-930-520-01	CUSHION	
110	4-924-425-01	GEAR (LOADING B)	
111	4-926-320-01	SCREW (B), STEP	
112	4-924-426-01	GEAR (LOADING C)	

No.	Part No.	Description	Remarks
113	4-926-317-01	SCREW, STEP	
114	4-930-508-01	GEAR (LOADING A)	
115	*4-930-591-01	CHASSIS (2)	
116	7-621-759-35	+PSW, 2.6X5	
117	X-4924-443-1	PULLEY ASSY	
118	4-930-507-01	PULLEY (LOADING)	
119	4-930-596-01	PULLEY (FLANGE)	
120	4-924-478-01	BELT (TIMING)	
911	*1-634-808-11	PC BOARD, LOADING MOTOR	
912	*1-634-810-11	PC BOARD, OPEN-UP SW	
913	*1-634-809-11	PC BOARD, DOWN-IN SW	
M401	A-4604-228-A	MOTOR ASSY, LOADING	

5-4. OPTICAL PICK-UP BLOCK (BU-5BD3)



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
151	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
152	4-933-126-01	INSULATOR (A)	
153	4-917-565-01	SHAFT, SLED	
154	7-621-255-15	SCREW +P 2X3	
155	4-917-567-01	GEAR (M)	
156	4-917-564-01	GEAR (P), FLATNESS	

No.	Part No.	Description	Remarks
914 ⚠	.8-848-144-11	DEVICE, OPTICAL KSS-240A	
915	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
916	*A-4617-371-A	MOUNTED PCB, BD	
M101	1-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- AUS: Austrarian Model

Ref.No.	Part No.	Description		
901	*1-634-804-11	PC BOARD, TACT SW		
902	*1-634-802-11	(EXCEPT C201)...PC BOARD, HEADPHONE		
903	*1-634-803-11	PC BOARD, POWER SW		
904	⚠1-575-104-11	(E).....CORD, POWER		
	⚠1-575-105-11	(US,Canadian)...CORD, POWER		
	⚠1-575-453-11	(AEP).....CORD, POWER		
	⚠1-575-677-11	(AUS).....CORD, POWER		
905	*1-634-806-11	PC BOARD, POWER		
906	*1-634-805-11	PC BOARD, TRANSLATION		
907	*A-4617-409-A	(C201).....MOUNTED PCB, MAIN		
	*A-4617-411-A	(C35,C205,C305:US/Canadian) ...MOUNTED PCB, MAIN		
	*A-4617-415-A	(AEP,E,AUS).....MOUNTED PCB, MAIN		
908	⚠1-569-007-11	(E3)...ADAPTOR, CONVERSTION 2P		
909	1-452-340-21	MAGNET		
910	*1-634-807-11	PC BOARD, TABLE MOTOR		
911	*1-634-808-11	PC BOARD, LOADING MOTOR		
912	*1-634-810-11	PC BOARD, OPEN-UP SW		
913	*1-634-809-11	PC BOARD, DOWN-IN SW		
914	⚠8-848-144-11	DEVICE, OPTICAL KSS-240A		
915	1-575-001-11	WIRE, FLAT TYPE (12 CORE)		
916	*A-4617-371-A	MOUNTED PCB, BD		
C101	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C102	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C103	1-126-094-11	ELECT 4.7MF	20%	16V
C104	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C105	1-126-154-11	ELECT 47MF	20%	6.3V
C106	1-126-154-11	ELECT 47MF	20%	6.3V
C107	1-126-154-11	ELECT 47MF	20%	6.3V
C108	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C109	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C110	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C111	1-131-367-00	TANTALUM 22MF	20%	16V
C112	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C113	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C114	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V
C115	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V
C117	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C118	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C119	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V
C120	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C151	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V
C152	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C153	1-163-006-11	CERAMIC CHIP 560PF	10%	50V
C154	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V
C155	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V

Ref.No.	Part No.	Description		
C171	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C172	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C173	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C174	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C301	1-124-443-00	ELECT 100MF	20%	10V
C302	1-164-159-11	CERAMIC 0.1MF		50V
C304	1-136-161-00	FILM 0.047MF	5%	50V
C305	1-161-374-11	CERAMIC 0.0015MF	30%	16V
C306	1-164-159-11	CERAMIC 0.1MF		50V
C307	1-161-379-00	CERAMIC 0.01MF	30%	16V
C308	1-124-902-00	ELECT 0.47MF	20%	50V
C309	1-164-159-11	CERAMIC 0.1MF		50V
C310	1-164-159-11	CERAMIC 0.1MF		50V
C311	1-164-159-11	CERAMIC 0.1MF		50V
C312	1-164-159-11	CERAMIC 0.1MF		50V
C313	1-164-159-11	CERAMIC 0.1MF		50V
C314	1-164-159-11	CERAMIC 0.1MF		50V
C315	1-164-159-11	CERAMIC 0.1MF		50V
C316	1-162-207-31	CERAMIC 22PF	5%	50V
C317	1-162-207-31	CERAMIC 22PF	5%	50V
C328	1-162-294-31	CERAMIC 0.001MF	10%	50V
C401	1-124-638-11	ELECT 22MF	20%	6.3V
C404	1-161-379-00	CERAMIC 0.01MF	30%	16V
C407	1-161-494-00	CERAMIC 0.022MF		25V
C410	1-164-159-11	CERAMIC 0.1MF		50V
C421	1-162-294-31	CERAMIC 0.001MF	10%	50V
C422	1-162-294-31	CERAMIC 0.001MF	10%	50V
C431	1-162-294-31	CERAMIC 0.001MF	10%	50V
C432	1-162-294-31	CERAMIC 0.001MF	10%	50V
C441	1-126-101-11	ELECT 100MF	20%	16V
C442	1-126-101-11	ELECT 100MF	20%	16V
C501	1-162-291-31	CERAMIC 560PF	10%	50V
C503	1-124-478-11	ELECT 100MF	20%	25V
C504	1-162-291-31	CERAMIC 560PF	10%	50V
C507	1-162-291-31	(EXCEPT C201)...CERAMIC 560PF	10%	50V
C521	1-126-103-11	ELECT 470MF	20%	16V
C522	1-126-103-11	ELECT 470MF	20%	16V
C523	1-164-159-11	CERAMIC 0.1MF		50V
C526	1-164-159-11	CERAMIC 0.1MF		50V
C527	1-164-159-11	CERAMIC 0.1MF		50V
C528	1-164-159-11	(EXCEPT C201)...CERAMIC 0.1MF		50V
C529	1-164-159-11	(EXCEPT C201)...CERAMIC 0.1MF		50V
C551	1-162-291-31	CERAMIC 560PF	10%	50V
C553	1-124-478-11	ELECT 100MF	20%	25V
C554	1-162-291-31	CERAMIC 560PF	10%	50V

Ref.No.	Part No.	Description
C557	1-162-291-31	(EXCEPT C201)...CERAMIC 560PF 10% 50V
C570	1-164-159-11	(EXCEPT C201)...CERAMIC 0.1MF 50V
C701	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C901	1-124-360-00	ELECT 1000MF 20% 16V
C902	1-124-887-00	ELECT 3300MF 20% 16V
C904	1-124-927-11	ELECT 4.7MF 20% 50V
C905	1-123-875-11	ELECT 10MF 20% 50V
C906	1-124-791-11	ELECT 1MF 20% 50V
C907	1-126-103-11	ELECT 470MF 20% 16V
C908	1-126-103-11	ELECT 470MF 20% 16V
C912	1-126-103-11	ELECT 470MF 20% 16V
C913	1-124-572-11	ELECT 100MF 20% 63V
C914	1-124-122-11	ELECT 100MF 20% 50V
C915	1-124-360-00	ELECT 1000MF 20% 16V
CN101	1-568-796-11	SOCKET, CONNECTOR 22P
CN102	1-568-795-11	SOCKET, CONNECTOR 12P
CNJ301	1-568-468-11	SOCKET, CONNECTOR 18P
CNJ402	*1-564-339-61	PIN, CONNECTOR 5P
CNJ403	*1-564-339-00	PIN, CONNECTOR 5P
CNJ407	*1-564-336-00	PIN, CONNECTOR 2P
CNJ411	*1-564-337-00	PIN, CONNECTOR 3P
CNJ502	*1-564-338-00	PIN, CONNECTOR 4P
CNJ504	*1-564-499-11	PIN, CONNECTOR 6P
CNJ506	*1-564-337-00	(EXCEPT C201)...PIN, CONNECTOR 3P
CNJ551	1-566-921-11	JACK, PIN 2P (LINE OUT)
CNJ701	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
CNJ902	*1-564-509-11	PLUG, CONNECTOR 6P
CNJ903	*1-564-321-00	PIN, CONNECTOR 2P
D301	8-719-107-94	DIODE 1SS202-1
D402	8-719-107-94	DIODE 1SS202-1
D403	8-719-107-94	DIODE 1SS202-1
D404	8-719-107-94	DIODE 1SS202-1
D405	8-719-107-94	DIODE 1SS202-1
D406	8-719-107-94	DIODE 1SS202-1
D901	8-719-200-77	DIODE 10E2N
D902	8-719-200-77	DIODE 10E2N
D903	8-719-200-77	DIODE 10E2N
D904	8-719-200-77	DIODE 10E2N
D909	8-719-107-94	DIODE 1SS202-1
D910	8-719-107-94	DIODE 1SS202-1
D911	8-719-109-81	DIODE RD4.7ES-B2
D912	8-719-200-77	DIODE 10E2N
D913	8-719-109-72	DIODE RD3.9ES-B2
D914	8-719-200-82	DIODE 11ES2
FL401	1-519-582-11	INDICATOR TUBE, FLUORESCENT
IC101	8-752-037-33	IC CXA1372Q
IC102	8-759-821-94	IC LA6532M
IC301	8-752-333-31	IC CXD2500Q
IC302	8-752-334-06	IC CXD2551P
IC401	8-759-149-33	IC UPD75212ACW-196
IC402	8-752-035-28	IC CXA1291P
IC403	8-749-920-83	IC GP1U52XB
IC501	8-759-990-13	IC TDA1543A-S1
IC502	8-759-945-58	IC RC4558P
IC503	8-759-634-51	(EXCEPT C201)...IC M5218AP
IC701	8-719-970-19	IC GP-1A521

Ref.No.	Part No.	Description
IC901	8-759-630-21	IC M5290P-16
IC902	8-759-633-42	IC M5293L
IC903	8-759-013-08	IC MC7808CT
J101	1-216-295-00	METAL GLAZE 0 5% 1/10W
J102	1-216-295-00	METAL GLAZE 0 5% 1/10W
J507	1-568-519-21	(EXCEPT C201)...JACK, LARGE TYPE (HEADPHONES)
L301	*1-410-858-11	INDUCTOR 27MMH
L501	*1-410-858-11	(EXCEPT C201)...INDUCTOR 27MMH
L502	*1-410-858-11	(EXCEPT C201)...INDUCTOR 27MMH
M101	1-4917-523-3	MOTOR ASSY (SPINDLE)
M102	X-4917-504-1	MOTOR ASSY (SLED)
M401	A-4604-228-A	MOTOR ASSY, LOADING
M701	A-4604-232-A	MOTOR ASSY, ROTARY
PS901⚠	1-532-637-00	(AEP/E/AUS)...LINK, IC ICP-N25 (1A)
PS902⚠	1-532-637-00	(AEP/E/AUS)...LINK, IC ICP-N25 (1A)
Q101	8-729-901-01	TRANSISTOR DTC144EK
Q301	8-729-900-89	TRANSISTOR DTC144ES
Q302	8-729-900-65	TRANSISTOR DTA144ES
Q401	8-729-900-65	TRANSISTOR DTA144ES
Q501	8-729-900-74	TRANSISTOR DTC143TS
Q551	8-729-900-74	TRANSISTOR DTC143TS
Q901	8-729-140-96	TRANSISTOR 2SD774-34
Q902	8-729-111-67	TRANSISTOR 2SB1094-L
Q905	8-729-119-76	TRANSISTOR 2SA1175-HFE
R101	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R102	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R103	1-216-091-00	METAL GLAZE 56K 5% 1/10W
R104	1-216-099-00	METAL GLAZE 120K 5% 1/10W
R105	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W
R106	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R107	1-216-114-00	METAL GLAZE 510K 5% 1/10W
R108	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R109	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R110	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R111	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R112	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R113	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W
R114	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R152	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R153	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R154	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R155	1-216-093-00	METAL GLAZE 68K 5% 1/10W
R156	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R157	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R158	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R159	1-216-079-00	METAL GLAZE 18K 5% 1/10W
R160	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R171	1-216-001-00	METAL GLAZE 10 5% 1/10W
R172	1-216-001-00	METAL GLAZE 10 5% 1/10W
R173	1-216-001-00	METAL GLAZE 10 5% 1/10W
R174	1-216-001-00	METAL GLAZE 10 5% 1/10W
R308	1-249-423-11	CARBON 3.3K 5% 1/4W
R309	1-249-423-11	CARBON 3.3K 5% 1/4W
R310	1-249-429-11	CARBON 10K 5% 1/4W
R311	1-249-429-11	CARBON 10K 5% 1/4W
R312	1-249-441-11	CARBON 100K 5% 1/4W
R313	1-249-417-11	CARBON 1K 5% 1/4W

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
R314	1-249-417-11	CARBON	1K	5%	1/4W
R315	1-249-417-11	CARBON	1K	5%	1/4W
R316	1-249-415-11	CARBON	680	5%	1/4W
R317	1-249-417-11	CARBON	1K	5%	1/4W
R318	1-249-417-11	CARBON	1K	5%	1/4W
R320	1-249-413-11	CARBON	470	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R341	1-249-441-11	CARBON	100K	5%	1/4W
R401	1-249-429-11	CARBON	10K	5%	1/4W
R402	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-249-433-11	CARBON	22K	5%	1/4W
R405	1-249-433-11	CARBON	22K	5%	1/4W
R406	1-249-433-11	CARBON	22K	5%	1/4W
R407	1-249-433-11	CARBON	22K	5%	1/4W
R408	1-249-441-11	CARBON	100K	5%	1/4W
R409	1-249-441-11	CARBON	100K	5%	1/4W
R410	1-249-433-11	CARBON	22K	5%	1/4W
R411	1-249-392-11	CARBON	8.2	5%	1/4W
R412	1-249-392-11	CARBON	8.2	5%	1/4W
R421	1-247-883-00	CARBON	150K	5%	1/4W
R422	1-249-441-11	CARBON	100K	5%	1/4W
R423	1-247-883-00	CARBON	150K	5%	1/4W
R424	1-247-882-11	CARBON	130K	5%	1/4W
R425	1-249-441-11	CARBON	100K	5%	1/4W
R426	1-247-903-00	CARBON	1M	5%	1/4W
R427	1-247-890-11	CARBON	300K	5%	1/4W
R431	1-247-883-00	CARBON	150K	5%	1/4W
R432	1-249-440-11	CARBON	82K	5%	1/4W
R433	1-247-882-11	CARBON	130K	5%	1/4W
R434	1-247-878-00	CARBON	91K	5%	1/4W
R435	1-249-441-11	CARBON	100K	5%	1/4W
R500	1-249-421-11	CARBON	2.2K	5%	1/4W
R501	1-247-840-00	CARBON	2.4K	5%	1/4W
R503	1-247-891-00	CARBON	330K	5%	1/4W
R504	1-249-419-11	CARBON	1.5K	5%	1/4W
R509	1-249-405-11	CARBON	100	5%	1/4W
R551	1-247-840-00	CARBON	2.4K	5%	1/4W
R553	1-247-891-00	CARBON	330K	5%	1/4W
R554	1-249-419-11	CARBON	1.5K	5%	1/4W
R559	1-249-405-11	CARBON	100	5%	1/4W
R701	1-249-416-11	CARBON	820	5%	1/4W
R901	1-249-425-11	CARBON	4.7K	5%	1/4W
R902	1-249-425-11	CARBON	4.7K	5%	1/4W
R906	1-249-410-11	CARBON	270	5%	1/4W
R909	1-249-435-11	CARBON	33K	5%	1/4W
R910	1-249-438-11	CARBON	56K	5%	1/4W
R911	1-249-429-11	CARBON	10K	5%	1/4W
R914	1-249-423-11	CARBON	3.3K	5%	1/4W
RV101	1-238-016-11	RES, ADJ, CARBON 10K			
RV102	1-238-016-11	RES, ADJ, CARBON 10K			
RV501	1-241-031-11	(EXCEPT C201)...RES, VAR, CARBON 1K/1K (HEADPHONES LEVEL)			

Ref.No.	Part No.	Description
S1	1-554-088-00	SWITCH, KEY BOARD (REPEAT)
S2	1-554-088-00	SWITCH, KEY BOARD (TIME FADE)
S3	1-554-088-00	SWITCH, KEY BOARD (TIME)
S4	1-554-088-00	SWITCH, KEY BOARD (PROGRAM)
S5	1-554-088-00	SWITCH, KEY BOARD (SHUFFLE)
S6	1-554-088-00	SWITCH, KEY BOARD (CONTINUE)
S7	1-554-088-00	SWITCH, KEY BOARD (■)
S8	1-554-088-00	SWITCH, KEY BOARD (▷▯▯)
S9	1-554-088-00	SWITCH, KEY BOARD (▯◁◁ ◀◀)
S10	1-554-088-00	SWITCH, KEY BOARD (▶▶ ▷▷▯)
S17	1-554-596-21	SWITCH, KEY BOARD (⏏OPEN/CLOSE)
S18	1-554-596-21	SWITCH, KEY BOARD (DISC SKIP)
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)
S401	1-571-300-11	SWITCH, ROTARY (OPEN/UP)
S402	1-554-205-00	SWITCH, PUSH (IN)
S403	1-570-973-11	SWITCH (DOWN)
S901 ⚠	1-571-305-11	SWITCH, PUSH (1 KEY)(POWER)
S902 ⚠	1-571-722-11	(E)...SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR)
T901 ⚠	1-449-954-11	(US,Canadian)...TRANSFORMER, POWER
T901 ⚠	1-449-955-11	(AEP/AUS).....TRANSFORMER, POWER
T901 ⚠	1-449-956-11	(E).....TRANSFORMER, POWER
X301	1-567-908-21	VIBRATOR, CRYSTAL (16MHz)
X401	1-577-358-21	VIBRATOR, CERAMIC (4MHz)

ACCESSORY & PACKING MATERIAL

	1-465-398-11	(EXCEPT C201,C205)...COMMANDER, REMOTE (RM-D306)
	2-181-754-01	(EXCEPT C201,C205)...COVER, BATTERY
	1-559-533-11	CORD, CONNECTION
*	3-701-630-00	BAG, POLYETHYLENE
*	3-704-217-01	(EXCEPT AEP/E/AUS)...LABEL(CERTIFICATION)
	3-751-430-11	(Canadian/AEP/E)...MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH,PORTUGUESE)
	3-751-430-21	(C201,C205,C305:US/AUS) ...MANUAL, INSTRUCTION (ENGLISH)
	3-751-430-41	(AEP)...MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,ITALIAN)
	3-751-431-21	(C35)...MANUAL, INSTRUCTION (ENGLISH)
	4-930-510-01	PLATE, LOCK
*	4-937-901-01	CUSHION (FRONT)
*	4-937-902-01	CUSHION (REAR)
*	4-937-903-11	(C305)....INDIVIDUAL CARTON
*	4-937-903-21	(C35).....INDIVIDUAL CARTON
*	4-937-903-31	(C205)....INDIVIDUAL CARTON
*	4-937-903-41	(C201)....INDIVIDUAL CARTON

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.